

A method for wireless communication, including positioning a first plurality of slave transceivers within a region and positioning a second plurality of slave transceivers within the region in positions spatially separated from the positions of the first plurality of slave transceivers. The method further includes receiving at the first plurality and at the second plurality of slave transceivers a reverse radio frequency (RF) signal generated by a mobile transceiver within the region and generating respective first and second slave signals responsive thereto. The method also includes conveying the first and second slave signals separately to a base transceiver station (BTS) external to the region, and processing the first and second slave signals conveyed to the BTS so as to recover information contained in the reverse RF signal generated within the region.